

BenQ

RP8605

Pro Series



Next-Gen AI Performance:

RP8605 features a true 10 TOPS NPU which enables AI processing directly on the device to support BenQ AI tools and improve classroom experiences for both students and teachers.



Android 15 and Google EDLA Certification:

With Android 15 and a Google EDLA ecosystem, RP8605 offers reliable access to core Google services and supports ongoing security updates to stay compatible with educational apps in the long term and reduce IT maintenance.



Advanced Data Security:

RP8605 includes device access controls, single sign-on, multi-factor authentication, and Google Play Protect, while complying with GDPR, CCPA, and PSTI standards to keep data secure.



ClassroomCare®:

RP8605 is verified by Eyesafe® Display 3.0 with an RPF® of 60 and a CPF of 50, helping protect eye health and support circadian-friendly viewing. Other ClassroomCare® technologies are germ-resistant surfaces, air quality sensors, and an air ioniser, all helping to support healthier, more comfortable classrooms.



Panel	Screen size	86"	
	Resolution	UHD 3840 × 2160	
	Brightness	450 nits	
	Contrast ratio (typ.)	1200:1	
	Dynamic contrast ratio	50,000:1	
	Viewing angle (H/V)	178°/178°	
	Response time	8 ms	
	Backlight life	50,000 hrs	
	Panel surface	AG, Haze 25%	
	Operating hours	18 hours / 7 days	
System	Orientation	Landscape	
	Memory Storage	16 GB 256 GB	
	OS	Android 15 (EDLA)	
	GPU	Arm Mali-G57 MC2	
	CPU	Arm Cortex-A78 × 2 + A55 × 6	
Power	NPU	10 TOPS	
	Power supply	AC 100-240 V, 50 / 60 Hz	
	Power consumption	Typical	126.4 W
		Standby	<0.5 W
	AC power switch	Yes	
Touch	ENERGY STAR®	Yes	
	Wake up	LAN / HDMI / VGA / DP	
	Technology	Ultra Precision IR	
	Number of touch points	up to 50	
Glass	Interface	USB Type-B × 3	
	Thickness	3.2 mm	
	Hardness	9H tempered	
ClassroomCare® Technology	AG coating	Yes	
	Eye care: flicker-free & low blue light	Yes (Eyesafe® Display 3.0 verified by UL Solutions; RPF® 60 / CPF 50)	
	Air quality sensors & air ioniser	CO ₂ - PM _{2.5} - PM ₁₀ - TVOC - CH ₂ O, temperature, humidity; air ioniser	
	Germ-resistant screen	Yes (certified by TÜV, SIAA & SGS)	
Environment	Operating temperature	0°C ~ 40°C	
	Operating humidity	10% ~ 90% RH non-condensing	
Connectivity	Input	VGA × 1, HDMI 2.0 × 3, DP 1.2a × 1, Mic (3.5mm) × 1, PC Audio × 1	
	Output	HDMI 2.0 × 1, Earphone (3.5 mm) × 1, SPDIF (Optical) × 1	
	USB	Type-A × 7 (3.0 × 4 / 2.0 × 3), Type-B × 3 (3.0), Type-C × 2 (3.0 PD 100 W × 1 / 2.0 × 1), Type-C (out) × 1	
	RS-232 (In)	× 1	
	RJ45 (LAN)	× 2 (Android / OPS) up to 1000Mbps	
	Wireless connectivity	Built-in WD02AT (Wi-Fi 6 + Bluetooth 5.2)	
	OPS slot (for slot-in PC)	× 1	
	Micro SD reader	× 1	
	Soundbar	70 W (25 W speakers × 2 20 W subwoofer × 1)	
	Microphones	8-mic array, up to 12 m pickup range	
Physical	NFC sensor	Yes	
	Dimensions (W × H × D)	1957.0 × 1200.6 × 130.0 mm	
	Weight (product shipping)	55.0 kg 73.6 kg	
	Bezel width (T B L R)	14.6 98.5 14.6 14.6 mm	
	Wall mounting (VESA) (screw type / max. length)	VESA 800 × 600 mm (4 × M8 × 25L), wall mount kit included	
Accessories	Pen tray	Yes	
	Remote control	× 1	
	Stylus	× 2 (PT01GN)	
	Cables	HDMI (3 m) × 1, USB-B for touch (3 m) × 1, USB-C (1.5 m) × 1	

→ Specifications subject to change without notice.



ENERGY STAR® 8.0

The energy-efficient design of the RP8605 displays meets ENERGY STAR® standards and can reduce power consumption by up to 70%.



Sustainable packaging

We've reduced our transport and logistics footprint by increasing the loading rate by 60%.



Remote energy control

Lower unnecessary power use with DMS by remotely powering displays on/off and setting schedules.

SOFTWARE



EZWrite 6

Save lessons in editable whiteboard files (IWB) with Cloud Whiteboarding. Google Classroom is integrated with EZWrite WEB.



InstaShare 2

Wireless screen sharing & casting from any device. Share several screens simultaneously, with different types of content.



X-Sign Broadcast

Announcement system with cross-campus communication. Send visual alerts, warnings, and videos to all or one specific device.



AMS

Account Management System to conveniently load and access your account and cloud storage from any BenQ display.



DMS

Device Management Solution centrally oversees all displays to get real-time status information, deploy OTA updates & more.

INPUT AND OUTPUT TERMINALS

FRONT I/O



NFC



TYPE-C 3.0



HDMI-IN



TOUCH-USB



PUBLIC 3.0



PUBLIC 3.0



MIC-IN



DOWN I/O



SPDIF



EARPHONE



USB 2.0



TOUCH-USB



LAN-IN / LAN-OUT



RS232

SIDE-REAR SECURED WI-FI PORTS



USB 2.0



USB 2.0

SIDE I/O



HDMI-OUT



TYPE-C OUT



PUBLIC 3.0



MICRO SD



TOUCH-USB 1



HDMI-IN 1



HDMI-IN 2



DP

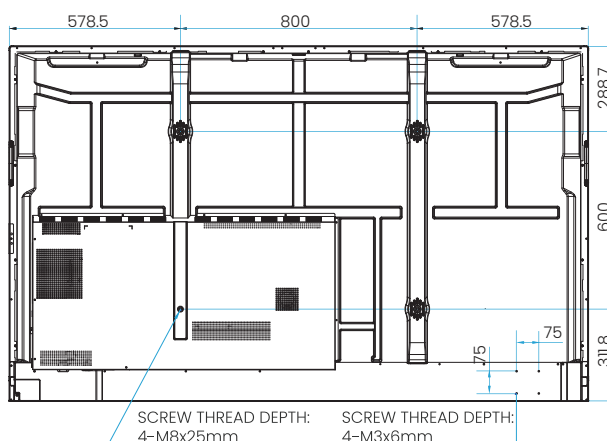
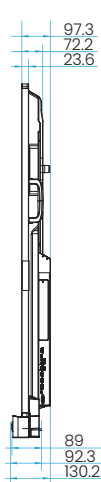
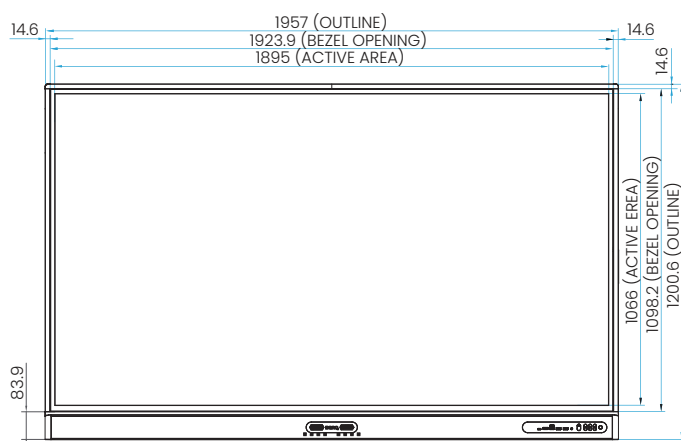


TYPE-C



VGA

DIMENSIONS (MM)



Warranty terms and conditions may change based on the country of purchase and local regulations.



www.benq.eu/en-eu/education.html

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